

Size: 2,777 acres
Mission: Train tanker crews and service KC-135 stratotanker
HRS Score: 27.93; placed on NPL in July 1987
IAG Status: IAG signed in 1989
Contaminants: Spent solvents, PCBs, petroleum/oil/lubricants, pesticides, cyanide, and cadmium
Media Affected: Groundwater and soil
Funding to Date: \$115.6 million
Estimated Cost to Completion (Completion Year): \$85.8 million (FY2038)
Final Remedy in Place or Response Complete Date for BRAC Sites: FY2003



Atwater, California

Restoration Background

In July 1991, the BRAC Commission recommended closure of Castle Air Force Base. The installation was closed on September 30, 1995.

Preliminary Assessment and Site Inspection activities identified landfills, underground storage tanks (USTs), discharge areas, chemical disposal pits, fire training areas, fuel spill areas, and six polychlorinated biphenyl (PCB) spill areas at the installation.

Interim Actions have included excavating and disposing of contaminated soil from the PCB spill areas; installing potable water supply wells and filtration systems to remove trichloroethene (TCE) from the groundwater; and removing 30 USTs. Sites were grouped into four operable units (OUs). In FY91, the installation submitted Records of Decision (RODs) for OU1 and OU2.

In FY93, additional areas of concern (AOCs) were identified and incorporated into the Source Control OU (SCOU). The installation completed Remedial Design (RD) activities at OU1 and began a Remedial Action (RA), capping inactive production wells, and removing abandoned USTs.

In FY95, the installation began operating soil vapor extraction (SVE) systems at two fuel spill areas. The Environmental Baseline Survey was completed.

In FY96, Part 1 of the RI/FS report was completed. The installation removed 69 USTs and 16 oil-water separators.

In FY97, the installation completed construction of a pump-and-treat system at OU2. The BRAC cleanup team (BCT) completed the SCOU RI/FS, the CB Part I ROD, and a draft final RD/RA

landfill work plan; provided the SCOU Proposed Plan for public comment; and placed four more sites in Removal Action status. The installation is over 94 percent in reuse.

The installation has a Restoration Advisory Board (RAB), which meets every other month.

FY98 Restoration Progress

The storm drain cleanup was completed and the sanitary sewer repair designed. Municipal well effects on contaminant plumes were determined, control mechanisms were developed, municipal wells AM-6 and A-16 were evaluated, and AM-16 was programmed to be operated only in high demand periods until further evaluated. Castle Vista Landfill A (CV-A), CV-B, and Landfill 2 were excavated and consolidated into Landfill 4, and the landfill RI/FS was completed. The OU1 Phase II and CV groundwater treatment plants were constructed. PCB-9 and ETC-10 RAs were completed. RCRA compliance actions included demolition of the Demineralized Water Plant and the Wastewater Treatment Plant.

SVE at CV-B, a UST site closure, and a groundwater Treatability Study on alternative carbon media began. A five-year groundwater RA review and the funding of a Federal Bureau of Prisons/Department of Justice wetland mitigation project also were initiated. The BCP was updated. Variable oversight training was completed.

SCOU ROD Volume 1 is under review by the Air Force, and the associated RD/RA work plan was completed. SCOU ROD Volume 2 and the RD/RA work plan await resolution of cleanup-level issues. The Federal Facility Agreement schedule was revised to reflect the status of ROD negotiations and the revised RA schedule. Landfill actions were delayed because of continued

SCOU ROD negotiations and to evaluate new excavation plans. Work on petroleum/oil/lubricants (POL) intrinsic remediation sites was delayed, pending resolution of risk-based remediation issues.

Continuing activities include long-term groundwater sampling, long-term operations (LTO) and maintenance of groundwater treatment systems, and LTO at two other sites. The closure report for Fuel Spill Areas 1 and 2 is also under way.

Plan of Action

- Construct site preparation for well head treatment for AM-6 to reduce response time should well waters exceed 1/2 MCL
- Construct CB Phase III groundwater treatment system and begin operations
- Continue LTO of five groundwater treatment systems and long-term groundwater sampling in FY99 and FY00
- Begin intrinsic remediation of POL intrinsic remediation sites in FY99-FY00
- Begin the sanitary sewer repair when validation issues are resolved
- Conduct an Institutional Control site survey
- Complete SCOU ROD and SCOU RD/RA work plan Volume 2
- Complete and implement the CB Part II RI/FS, Proposed Plan, and ROD
- Initiate remediation of remaining SCOU sites
- Complete last RA in FY02

SITES ACHIEVING RIP OR RC PER FISCAL YEAR

